FIG.1

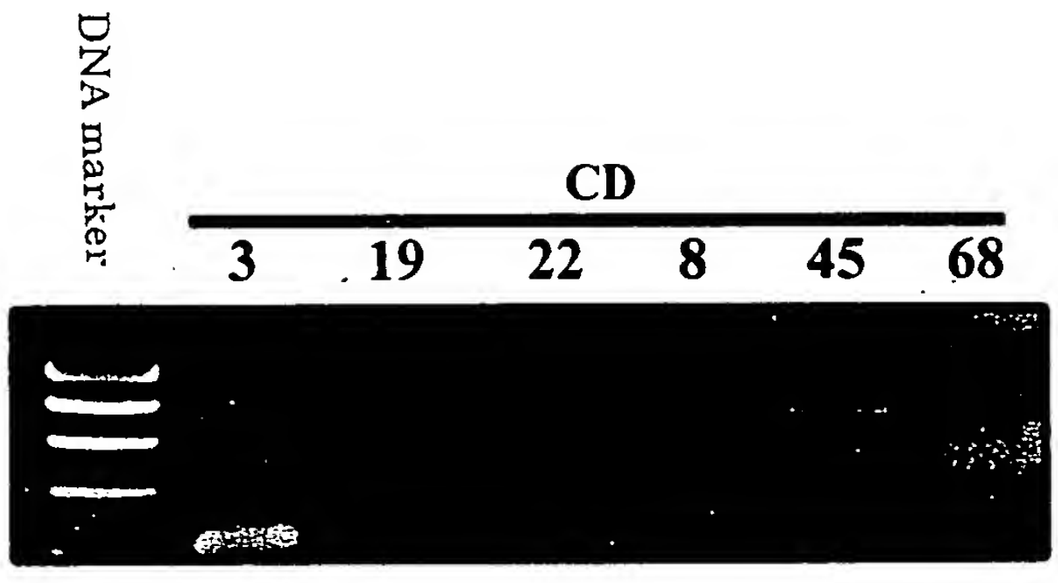


FIG.2

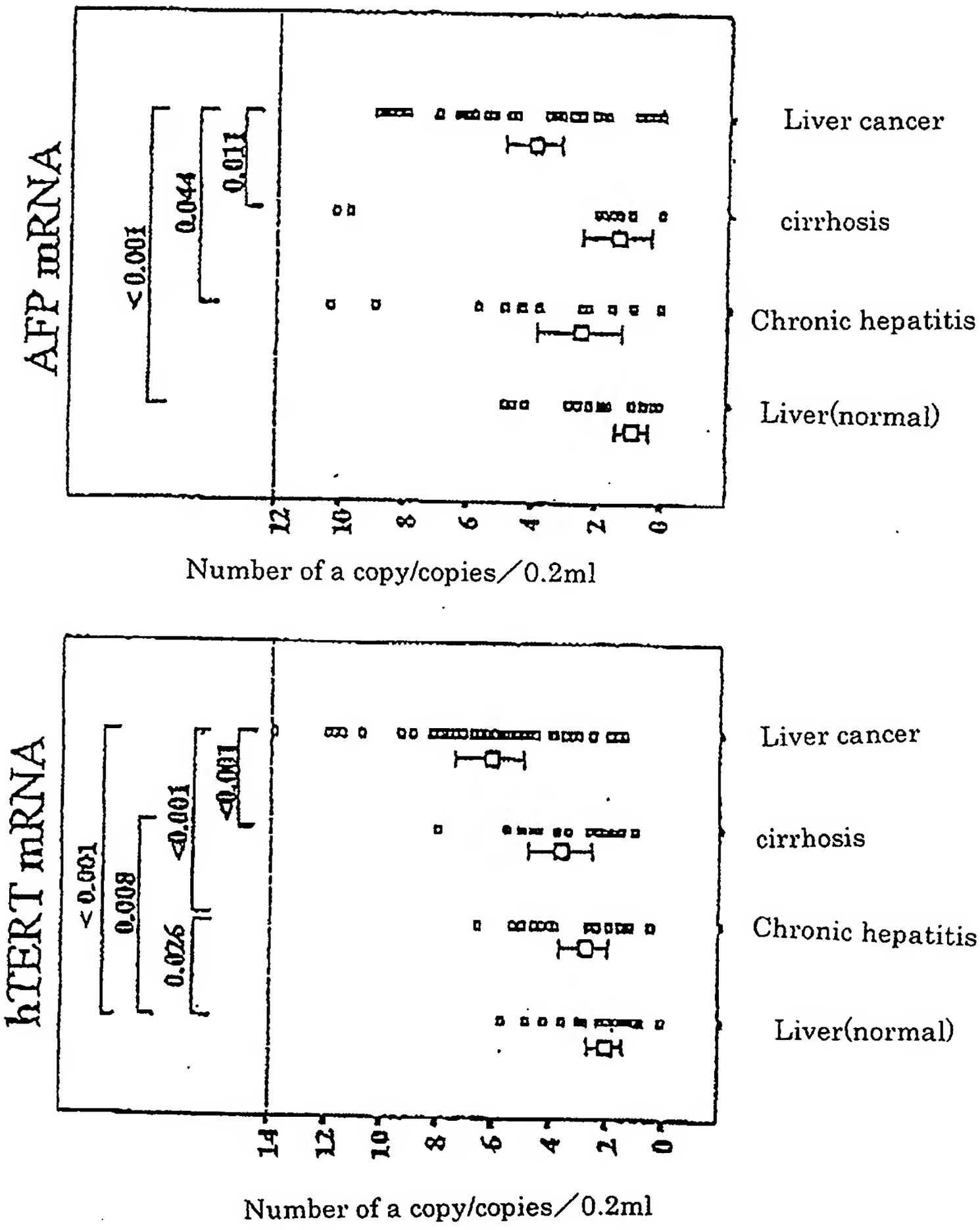
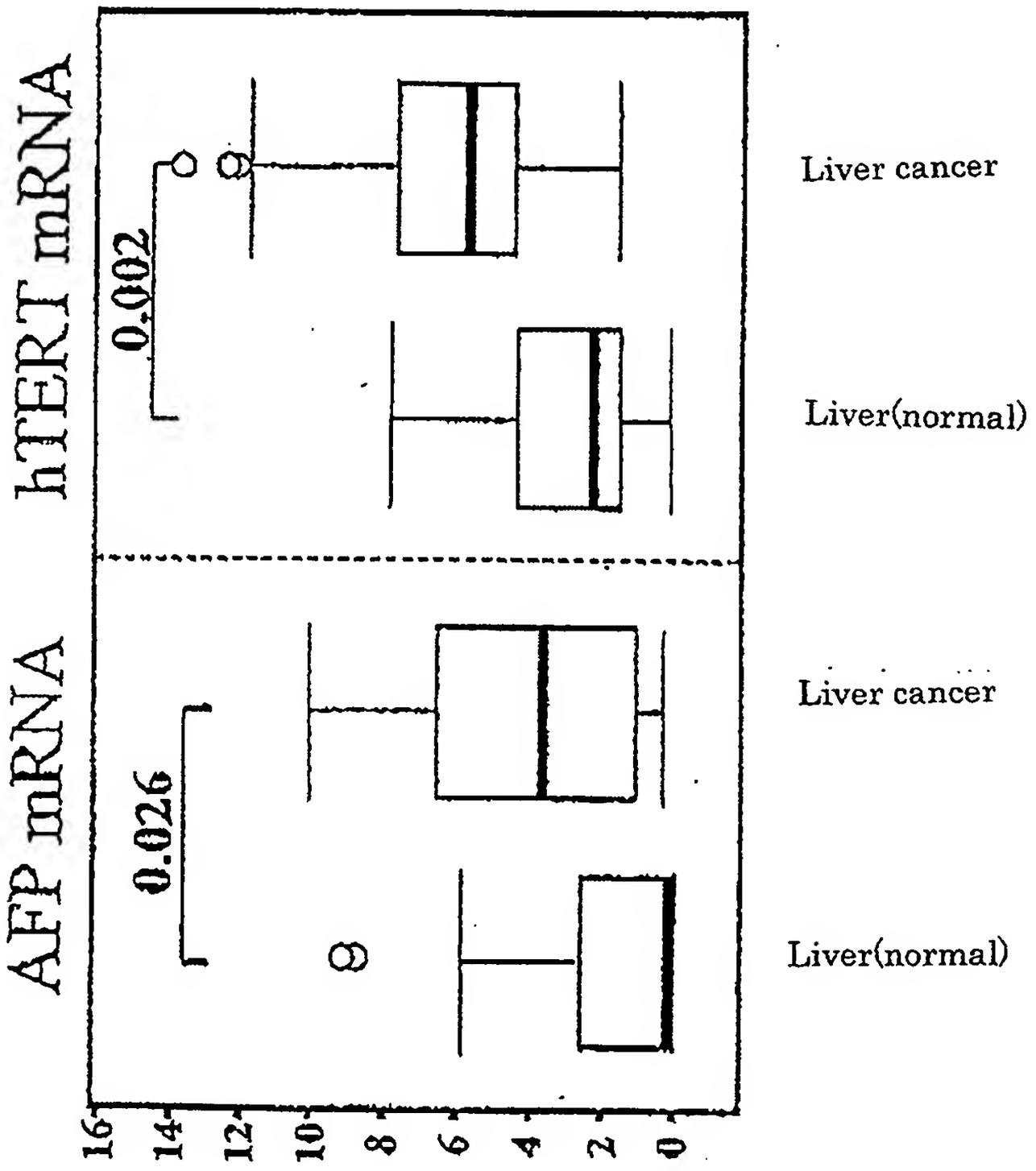

AFP mRNA
<0.001
0.044
0.011
Liver cancer
cirrhosis
Chronic hepatitis
Liver(normal)
12
10
8
6
4
2
0
Number of a copy/copies／0.2ml
hTERT mRNA
< 0.001
0.008
0.026
<0.001
<0.001
Liver cancer
cirrhosis
Chronic hepatitis
Liver(normal)
14
12
10
8
6
4
2
0
Number of a copy/copies／0.2ml

FIG.3

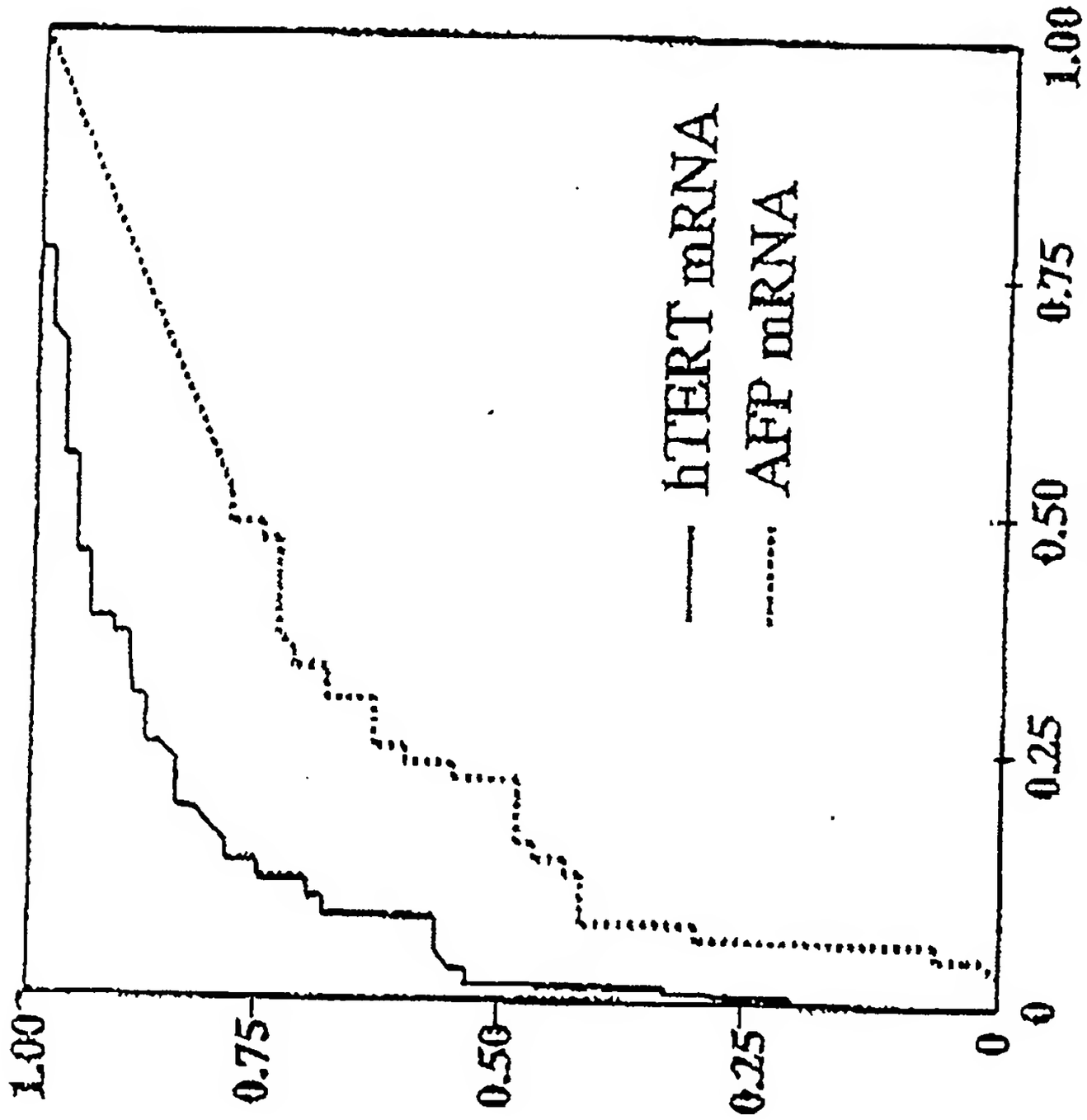


Number of a copy/copies／0.2ml

Clinical marker			A multivariate analysis	
			hTERT mRNA	AFP mRNA
			P value	P value
Age	59 years old on average: (subjects ranged between 22 years old to 83 years old)		0.008	0.793
sex	male	72	0.761	0.089
	female	52		
cause of disease	type B hepatitis	21	0.250	0.651
	type C hepatitis	51		
	type B type C hepatitis	3		
	non-B non-C hepatitis	2		
	alcohol	3		
non tumor region				
	normal	31	0.060	0.973
	primary biliary cirrhosis	2		
	Chronic hepatitis	29		
	Cirrhosis	62		
Alubumin(g/dl)			0.013	0.340
Bilirubin(mg/dl)			0.928	0.693
ALT(IU/L)			0.538	0.149
Child-Pugh	A	21	0.136	0.573
	B	43		
	C	5		
AFP (ng/ml)			0.911	0.319
AFP-L3 (%)			0.123	0.475
DCP (mAU/ml)			0.354	0.651
Diameter of tumor	2cm>	18	<0.001	0.061
	2~3 cm	26		
	3 cm<	10		
Number of tumors	1	10	<0.001	0.123
	2	22		
	3≤	22		
Degree of differentiation of tumor	AAH	3	0.010	0.096
	High	28		
	Medium	22		
	Low	1		

FIG.4

FIG.5


ROC curve
1.00
0.75
0.50
0.25
0
0.25
0.50
0.75
1.00
1-Specificity
Sensitivity
hTERT mRNA
AFP mRNA

	chronic hepatitis cirrhosis (n=40)	→ hepatoma (n=54)	cirrhosis (n=20)	→ hepatoma (n=54)
Tumor marker				
AFP		0.376		0.532
AFP-L3		0.144		0.228
DCP		0.317		0.479
AFP mRNA		0.001		0.001
hTERT mRNA		< 0.001		< 0.001
Biochemical profile views				
Alb		< 0.001		0.040
ALT		0.018		0.031
Child-Pugh		0.001		0.095

FIG.6

Sensitivity and 1-Specificity of lung cancer tumor marker

	Sensitivity	1-Specificity	P value
AFP	**0.693**	**0.400**	**0.002**
AFP-L3	**0.563**	**0.075**	**0.304**
DCP	**0.815**	**0.365**	**< 0.001**
AFP mRNA	**0.716**	**0.325**	**< 0.001**
hTERT mRNA	**0.859**	**0.300**	**< 0.001**

FIG. 7